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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,688	11/26/2003	Peter Gaal	030153	8929
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5775 MOREHO	OUSE DR.		ELCENKO, ERIC J	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			2617	
			NOTIFICATION DATE	DELIVERY MODE
			01/07/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)		
	10/723,688	GAAL ET AL.		
Office Action Summary	Examiner	Art Unit		
	ERIC ELCENKO	2617		
The MAILING DATE of this communication appeariod for Reply	ppears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory periot  - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION I.136(a). In no event, however, may a reply be to divide apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	N. imely filed m the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on <u>04</u> 2a) ☐ This action is <b>FINAL</b> . 2b) ☐ Th 3) ☐ Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, p			
Disposition of Claims				
4) ☐ Claim(s) 1-31 and 37-41 is/are pending in the 4a) Of the above claim(s) is/are withdr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-31 and 37-41 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers	rawn from consideration.			
9)☐ The specification is objected to by the Examir	nor.			
10) The drawing(s) filed on is/are: a) according a deplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination is objected to be added	ecepted or b) objected to by the e drawing(s) be held in abeyance. So ection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4)  Interview Summar Paper No(s)/Mail I 5)  Notice of Informal 6)  Other:	Date		

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### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 4, 2008 has been entered.

## Response to Arguments

Applicant's arguments have been fully considered and are persuasive.

Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of the combination of Lindskog and the newly found prior art reference of Joshi as disclosed below.

The 35 U.S.C. 101 rejection against claims 39-41 is withdrawn.

### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 1-6, 14-24, 37, 39 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindskog (U.S. Pub. No. 2006/0120322) in view of Joshi et al. (U.S. Pub. No. 2005/0250521)

In regard to Claims 1, 19, 37 and 39, Claim 1 being an associated method claim of an apparatus claims 19 and 37, Lindskog teaches allocating a first code to a first subscriber station, (*A request comes in for allocation of channel resources, and a specific channel resources is allocated, Abs*) assigning a first sub-code derived from the first code to support a dedicated channel to the first subscriber station,(*depending upon the rate needed, a code is broken down as shown in Fig. 2 into smaller sub-codes of the larger code to maximize the resources available., <i>Para 25-27*) It is reasonable for one of ordinary skill in the art to assume this process can be done for multiple mobile stations for assigning a second code to support a dedicated channel to the second subscriber station. (*depending upon the rate needed, a code is broken down as shown in Fig 2 into smaller sub-codes of the larger code to maximize resources available, Para 25-27*)

Lindskog does not teach assigning a second sub-code derived from the first code to support a supplemental channel to the second subscriber station. (Assigning a second channel to a single mobile station)

Joshi teaches multiple assigned channels to a single mobile station including up to seven additional supplemental channel wherein the supplemental channels are operated at a different data rate than the first channel. (Para 30-31) Lindskog teaches when assigning a code to a channel the codes not used in the allocation to the first

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channel are available for future allocation to provide other channels. It is obvious to one of ordinary skill in the art at the time of the invention if the additional supplemental channel was not able to be allocated to the same code as the dedicated channel assigned to the second mobile station from a limitation of available space, the additional space from another code would be used to support the supplemental channel.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lindskog to include the teaching of Joshi as described above. One of ordinary skill in the art could have combined the known prior art elements using known techniques to yield predictable results to one of ordinary skill in the art.

In regard to Claims 2 and 20, Joshi teaches assigning a third sub-code derived from the first code to support a second supplemental channel to the second subscriber station. (Joshi teaches assigning up to seven additional supplemental channels, Para 3—31) As discussed above the additional space from a channel could be used to support other channels from a first code.(Para 28, 30, 37 and 44)

In regard to Claims 3 and 21, it is obvious to one of ordinary skill in the art that that in a communication system at any time there can be a mobile in soft hand off and one not in soft handoff. There can also be none in soft handoff. The allocation of a code to a mobile in soft-hand off would only constitute holding the resource in the first cell for additional time. (Para 65)

In regard to Claims 4 and 22, Lindskog teaches separating communications to the second subscriber station into first and second portions. Spreading the first portion of the communication with the second code and spreading the second portion of the communications with the second sub-code. (spreading codes are assigned to a forward-link connections from a first set of orthogonal odes as long as there are codes available in the first set. When no more codes are available, codes from a second set Are assigned. Para 4)

In regard to Claims 5 and 23, Lindskog teaches he first sub-code comprises a plurality of concatenated copies of the first code. (Para 28)

In regard to Claims 6 and 24, Lindskog teaches signaling to the second subscriber the first code. (Para 27-30)

In regard to Claims 14 and 41, Lindskog teaches receiving information from a base station comprising a first code, (*A request comes in for allocation of channel resources, and a specific channel resources is allocated, Abs*) searching through the first code to locate a sub-code, (*depending upon the rate needed, a code is broken down as shown in Fig. 2 into smaller sub-codes of the larger code to maximize the resources available.*, *Para 25-27*) dispreading a dedicated channel fro the base station with a second code, (*It is reasonable for one of ordinary skill in the art to assume this process can be done for multiple mobile stations for assigning a second code to support a dedicated channel to the second subscriber station. (<i>depending upon the rate needed, a code is broken down as shown in Fig 2 into smaller sub-codes of the larger code to maximize resources available*, *Para 25-27*)

Lindskog does not teach dispreading a supplemental channel with a sub-code and communicating on the dedicated and supplemental channels.

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Joshi teaches multiple assigned channels to a single mobile station including up to seven additional supplemental channels wherein the supplemental channels are operated at a different data rate than the first channel. (Para 30-31) Lindskog teaches when assigning a code to a channel the codes not used in the allocation to the first channel are available for future allocation to provide other channels. It is obvious to one of ordinary skill in the art at the time of the invention if the additional supplemental channel was not able to be allocated to the same code as the dedicated channel assigned to the mobile station from a limitation of available space, the additional space from another code would be used to support the supplemental channel.

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It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lindskog to include the teaching of Joshi as described above. One of ordinary skill in the art could have combined the known prior art elements using known techniques to yield predictable results to one of ordinary skill in the art.

In regard to Claims 15 and 16, Lindskog teaches wherein the information comprises a plurality of codes including the first code and the first code containing the sub-code. (Para 28)

In regard to Claims 17 and 18, Lindskog teaches wherein the information is carried on the dedicate channel. (dedicated channel is used for communication between the base station and the mobile station, Fig. 1, Para 28)

4. Claims 7,25, 38 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindskog (U.S. Pub. No. 2006/0120322) in view of Scherzer et al. (U.S. Pub. No. 6,901,062)

In regard to Claims 7, 25, 38 and 40 Claim 7 being the method claim of apparatus claims 25, Lindskog teaches allocating a different first code from a plurality of orthogonal codes to each of the subscriber stations; (*A request comes in for allocation of channel resources, and a specific channel resources is allocated, Abs,*) assigning each subscriber station either its first allocated code or a first sub-code derived from its allocated first code to support a dedicated channel, (*It is reasonable for one of ordinary skill in the art to assume this process can be done for multiple mobile stations for assigning a second code to support a dedicated channel to the second subscriber station, Para 25-27) assigning a second sub-code derived from one of the first codes to support a communications channel to one of the subscriber stations. (<i>Lindskog teaches when assigning a code to a channel the codes not used in the allocation to the first channel are available for future allocation to provide other channels. Para 28)* 

Lindskog does not teach separating a plurality of mobile stations into groups.

Scherzer teaches grouping the subscriber stations in a number of groups (e.g., M groups) and allocating resources to subscriber stations in groups. (Col 9, Ln 33-55)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lindskog to include the teaching of Scherzer in order for a larger number of subscriber stations to be handled and provide more efficient server while taking into a larger group of connections rather than a single mobile stations.

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5. Claims 8-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination as applied to claim 7 above, and further in view of Joshi et al. (U.S. Pub. No. 2005/0250521)

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In regard to Claims 8 and 26, Lindskog teaches assigning a second code to support a dedicated channel to said one of the subscriber stations in the second group, (It is reasonable for one of ordinary skill in the art to assume this process can be done for multiple mobile stations for assigning a second code to support a dedicated channel to the second subscriber station. (depending upon the rate needed, a code is broken down as shown in Fig 2 into smaller sub-codes of the larger code to maximize resources available, Para 25-27)

Lindskog does not teach assigning a second sub-code derived from the first code to support a supplemental channel to the second subscriber station. (Assigning a second channel to a single mobile station)

Joshi teaches multiple assigned channels to a single mobile station including up to seven additional supplemental channel wherein the supplemental channels are operated at a different data rate than the first channel. (Para 30-31) Lindskog teaches when assigning a code to a channel the codes not used in the allocation to the first channel are available for future allocation to provide other channels. It is obvious to one of ordinary skill in the art at the time of the invention if the additional supplemental channel was not able to be allocated to the same code as the dedicated channel

assigned to the second mobile station from a limitation of available space, the additional space from another code would be used to support the supplemental channel.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify Lindskog to include the teaching of Joshi as described above. One of ordinary skill in the art could have combined the known prior art elements using known techniques to yield predictable results to one of ordinary skill in the art.

In regard to Claims 9 and 27, Lindskog teaches separating communications to the second subscriber station into first and second portions. Spreading the first portion of the communication with the second code and spreading the second portion of the communications with the second sub-code. (spreading codes are assigned to a forward-link connections from a first set of orthogonal odes as long as there are codes available in the first set. When no more codes are available, codes from a second set Are assigned. Para 4)

In regard to Claims 10 and 28, Joshi teaches assigning a third sub-code derived from the first code to support a second supplemental channel to the second subscriber station. (Joshi teaches assigning up to seven additional supplemental channels, Para 3—31) As discussed above the additional space from a channel could be used to support other channels from a first code.(Para 28, 30, 37 and 44)

In regard to Claims 11 and 29, it is obvious to one of ordinary skill in the art that that in a communication system at any time there can be a mobile in soft hand off and one not in soft handoff. There can also be none in soft handoff. The allocation of a

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code to a mobile in soft-hand off would only constitute holding the resource in the first cell for additional time. (Para 65)

In regard to Claims 12 and 30, Lindskog teaches he first sub-code comprises a plurality of concatenated copies of the first code. (Para 28)

In regard to Claims 13 and 31, Lindskog teaches signaling to the second subscriber the first code. (Para 27-30)

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC ELCENKO whose telephone number is (571)272-8066. The examiner can normally be reached on M-F 7:30 AM through 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexander Eisen can be reached on (571) 272-7687. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ee

/Alexander Eisen/ Supervisory Patent Examiner, Art Unit 2617